

1 determining a second velocity vector "V_y" for migration of fluid in the region of
2 interest, the second velocity vector comprising attributes of speed and direction of
3 flow of fluid in a second direction in the region of interest;

4 extrapolating the velocity vectors to identify the fluid accumulation location;

5 and

6 wherein the first and second velocity vectors are primarily functions of
7 supplementary pressure "dP" in the region of interest, the permeability "c" of the region
8 of interest, and the viscosity "u" of the fluid in the region of interest.

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